

When Baby Needs a Second Test for an Organic Acid Disorder Elevated C4DC+C5OH

A small sample of your baby's blood was collected soon after birth and sent to the DHEC laboratory for testing. This testing is called Newborn Screening. In SC, newborns are tested for several genetic and biochemical disorders. Sometimes, a second test is needed to help your doctor decide if your baby has one of these disorders. In many cases, the second test will be normal. However, if your baby does have one of the newborn screening disorders, early treatment will give him or her the best chance to grow up healthy.

Because a compound called C4DC+C5OH was high in your baby's first test, he or she could possibly have an Organic Acid Disorder. There are 5 different organic acid disorders that can cause C5OH to be high:

3-Methylcrotonyl Co-A Carboxylase Deficiency (3-MCC), 3-Methylglutaconic aciduria (3MGA), 3-Hydroxy-3-Methylglutaric aciduria (HMG), Beta-ketothiolase Deficiency (BKT) and 2-Methyl 3-OH Butyric aciduria (2M3HBA).

What are organic acid disorders?

Organic acid disorders are genetic disorders that are found in a few babies born each year. Some of these disorders can be identified when compounds called acyl carnitines are measured in a baby's blood. When a baby has an organic acid disorder, he or she cannot rid the blood of certain waste products that occur during the metabolism of protein. These waste products build up in the baby's blood and can cause the baby to have feeding problems, seizures or even go into a coma.

How will I know if my baby really has one of these organic acid disorders?

If your baby's newborn screening result showed very high C5OH levels, he or she could have one of these disorders. The newborn screening test will be repeated, and additional tests will be done to help the doctors figure out if your baby has an organic acid disorder. Usually, the results of these tests take a few days to come back. You will also be referred to a doctor who specializes in these kinds of disorders.

What do I need to do until I know the final results?

Any organic acid disorder can cause your baby to get very sick. Even minor illness can be a medical emergency in a baby with one of them. Follow your doctor's instructions very carefully. If your baby is hard to wake up, refuses to eat, or seems to be getting sick, your doctor may have you call 911 for emergency help.

How are organic acid disorders treated?

Babies with organic acid disorder are usually treated with a special diet. Some babies must be fed a special metabolic formula. When they begin to eat solids, the protein in their diet will need to be controlled. They will still need to drink their special formula to make sure they get everything they need to grow properly. A dietitian will help the family learn which foods the baby can eat. Supplements called glycine and carnitine are also used in some babies.

What else should I do to keep my baby as healthy as possible?

Follow your doctor's instructions carefully! Babies with an organic acid disorder can get sick very fast when they are not able to eat their usual diet or when they have any illness. Almost any childhood illness can cause a baby to eat less than usual, like a cold, an ear infection, or a virus. Stomach viruses that cause vomiting and/or diarrhea are a real concern in these babies.

Treating illnesses before they become serious and following your baby's diet plan carefully are the best things you can do to help your baby grow and develop.

Internet Resource: <http://www.babysfirsttest.org/>